

Involute spline joints

30° pressure angle

Basic dimensions and test dimensions for modules 0,5, 0,6, 0,75, 0,8 and 1

DIN
5480
Part 3Zahnwellen-Verbindungen mit Evolventenflanken; Eingriffswinkel 30°;
Nennmaße, Maßgrößen, Modul 0,5, 0,6, 0,75, 0,8 und 1Supersedes
March 1986 edition.

In keeping with current practice in standards published by the International Organization for Standardization (ISO), a comma has been used throughout as the decimal marker.

See DIN 5480 Part 1 for symbols, quantities and examples of designation.

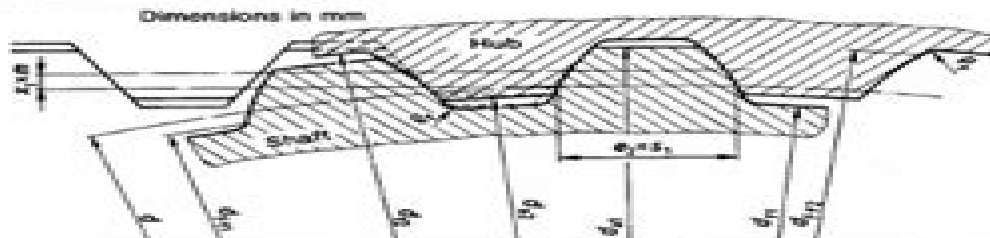
1 Module 0,5 ($\alpha_{\text{min}} = 0,08$)

Table 1. Basic dimensions

Refer- ence diam- eter, d_g	Num- ber of teeth, z	Pitch diam- eter, d	Base diam- eter, d_g	Hub root diameter,			Shaft root diameter,			Form circle diameter,		Shaft addendum modifi- cation, $x_1 \cdot m$	Space width (tooth thick- ness), $\sigma_2 = \sigma_1$
				d_{g2}	$d_{g1}^{1)}$ $A_{g1}^{2)}$ 0,55	$A_{g2}^{2)}$	d_{s1}	$d_{s2}^{1)}$ $A_{s2}^{2)}$ 0,55	$A_{s1}^{2)}$	d_{s3} min.	d_{s3} max.		
6	10	5	4,440	5	6	+ 0,19	5,9	4,9	- 0,41	5,95	4,95	+ 0,225	1,045
7	12	6	5,196	6	7	+ 0,19	6,9	5,9	- 0,41	6,95	5,95	+ 0,225	1,045
8	14	7	6,062	7	8	+ 0,19	7,9	6,9	- 0,41	7,95	6,95	+ 0,225	1,045
9	16	8	6,928	8	9	+ 0,19	8,9	7,9	- 0,41	8,95	7,95	+ 0,225	1,045
10	18	9	7,794	9	10	+ 0,19	9,9	8,9	- 0,41	9,95	8,95	+ 0,225	1,045
11	20	10	8,660	10	11	+ 0,19	10,9	9,9	- 0,41	10,95	9,95	+ 0,225	1,045
12	22	11	9,526	11	12	+ 0,19	11,9	10,9	- 0,41	11,95	10,95	+ 0,225	1,045
13	24	12	10,392	12	13	+ 0,20	12,9	11,9	- 0,45	12,96	11,94	+ 0,225	1,045
14	26	13	11,258	13	14	+ 0,20	13,9	12,9	- 0,45	13,96	12,94	+ 0,225	1,045
15	28	14	12,124	14	15	+ 0,20	14,9	13,9	- 0,45	14,96	13,94	+ 0,225	1,045
16	30	15	12,990	15	16	+ 0,20	15,9	14,9	- 0,45	15,96	14,94	+ 0,225	1,045
17	32	16	13,856	16	17	+ 0,20	16,9	15,9	- 0,45	16,96	15,94	+ 0,225	1,045
18	34	17	14,722	17	18	+ 0,20	17,9	16,9	- 0,45	17,96	16,94	+ 0,225	1,045
19	36	18	15,588	18	19	+ 0,20	18,9	17,9	- 0,45	18,96	17,94	+ 0,225	1,045
20	38	19	16,454	19	20	+ 0,20	19,9	18,9	- 0,45	19,96	18,94	+ 0,225	1,045
21	40	20	17,320	20	21	+ 0,20	20,9	19,9	- 0,45	20,96	19,94	+ 0,225	1,045
22	42	21	18,186	21	22	+ 0,20	21,9	20,9	- 0,45	21,96	20,94	+ 0,225	1,045
23	44	22	19,052	22	23	+ 0,20	22,9	21,9	- 0,45	22,96	21,94	+ 0,225	1,045
24	46	23	19,918	23	24	+ 0,20	23,9	22,9	- 0,45	23,96	22,94	+ 0,225	1,045
25	48	24	20,784	24	25	+ 0,20	24,9	23,9	- 0,45	24,96	23,94	+ 0,225	1,045
26	50	25	21,650	25	26	+ 0,21	25,9	24,9	- 0,49	25,97	24,93	+ 0,225	1,045
27	52	26	22,516	26	27	+ 0,21	26,9	25,9	- 0,49	26,97	25,93	+ 0,225	1,045
28	54	27	23,382	27	28	+ 0,21	27,9	26,9	- 0,49	27,97	26,93	+ 0,225	1,045
29	56	28	24,248	28	29	+ 0,21	28,9	27,9	- 0,49	28,97	27,93	+ 0,225	1,045
30	58	29	25,114	29	30	+ 0,21	29,9	28,9	- 0,49	29,97	28,93	+ 0,225	1,045
31	60	30	25,980	30	31	+ 0,21	30,9	29,9	- 0,49	30,97	29,93	+ 0,225	1,045
32	62	31	26,846	31	32	+ 0,21	31,9	30,9	- 0,49	31,97	30,93	+ 0,225	1,045
33	64	32	27,712	32	33	+ 0,21	32,9	31,9	- 0,49	32,97	31,93	+ 0,225	1,045
34	66	33	28,578	33	34	+ 0,21	33,9	32,9	- 0,49	33,97	32,93	+ 0,225	1,045
35	68	34	29,444	34	35	+ 0,21	34,9	33,9	- 0,49	34,97	33,93	+ 0,225	1,045
36	70	35	30,310	35	36	+ 0,21	35,9	34,9	- 0,49	35,97	34,93	+ 0,225	1,045
37	72	36	31,176	36	37	+ 0,21	36,9	35,9	- 0,49	36,97	35,93	+ 0,225	1,045
38	74	37	32,042	37	38	+ 0,21	37,9	36,9	- 0,49	37,97	36,93	+ 0,225	1,045
39	76	38	32,908	38	39	+ 0,21	38,9	37,9	- 0,49	38,97	37,93	+ 0,225	1,045
40	78	39	33,774	39	40	+ 0,21	39,9	38,9	- 0,49	39,97	38,93	+ 0,225	1,045

1) Theoretical root diameter as specified in DIN 5480 Part 1.

2) Limit deviations of theoretical root diameters.

Continued on pages 2 to 11

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JE Gale



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Hitachi Review ,1964 Beginning with the issue of Vol 47 No 2 April 1998 the full page edition of Hitachi Review has been available only on web page in place of the conventional publication *Standard Handbook of Machine Design* Joseph Edward Shigley, Charles R. Mischke, 1986 The latest ideas in machine analysis and design have led to a major revision of the field's leading handbook New chapters cover ergonomics safety and computer aided design with revised information on numerical methods belt devices statistics standards and codes and regulations Key features include new material on ergonomics safety and computer aided design practical reference data that helps machines designers solve common problems with a minimum of theory current CAS CAM applications other machine computational aids and robotic applications in machine design This definitive machine design handbook for product designers project engineers design engineers and manufacturing engineers covers every aspect of machine construction and operations Voluminous and heavily illustrated it discusses standards codes and regulations wear solid materials seals flywheels power screws threaded fasteners springs lubrication gaskets coupling belt drive gears shafting vibration and control

World Metric Standards for Engineering Knut O. Kverneland, 1978 **Bulletin of the JSME**. Nihon Kikai Gakkai, 1985 **Magazine of Standards** ,1957 *THOMAS REGISTER 2005* ,2005 **The SAE Journal** ,1961 Vols 30 54 1932 46 issued in 2 separately paged sections General editorial section and a Transactions section Beginning in 1947 the Transactions section is continued as SAE quarterly transactions **Standardization** ,1953 *Industrial Standardization* ,1957 **Thomas Register** ,2004 *Thomas Register of American Manufacturers* ,2002 This basic source for identification of U S manufacturers is arranged by product in a large multi volume set Includes Products services Company profiles and Catalog file *Thomas Register of American Manufacturers and Thomas Register Catalog File* ,2002 Vols for 1970 71 includes manufacturers catalogs

Business Japan ,1975 **The Engineering Index Annual** ,1992 Since its creation in 1884 Engineering Index has covered virtually every major engineering innovation from around the world It serves as the historical record of virtually every major engineering innovation of the 20th century Recent content is a vital resource for current awareness new production information technological forecasting and competitive intelligence The world's most comprehensive interdisciplinary engineering database Engineering Index contains over 10 7 million records Each year over 500 000 new abstracts are added from over 5 000 scholarly journals trade magazines and conference proceedings Coverage spans over 175 engineering disciplines from over 80 countries Updated weekly

Specification for Involute Splines British Standards Institute Staff, 1963-01-30 Locking and locating devices Splines Involute splines Dimensions Fits Shape Dimensional tolerances Form tolerances Imperial system Machining tolerances Fillets shape Linear measuring instruments Ring gauges Plug gauges Linear measurement Diameter measurement Angular tolerances Definitions **Involute splines and inspection** American National Standards Institute. Standards Committee B92, Involute Splines and Inspection, 1978 **Involute Splines and**

Inspection American National Standards Institute. Standards Committee B92, Involute Splines and Inspection, Society of Automotive Engineers. Involute Splines, Serrations and Inspection Committee, American Society of Mechanical Engineers, 1972 **Specification for Involute Splines** British Standards Institution, 1983 **Involute Splines** British Standards Institution, 1963 **The Advantages of the New SAE Standard for Involute Splines from a Design Standpoint** L. N. DeVos, 1959

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Table of Contents Jis Involute Spline Standard

1. Understanding the eBook Jis Involute Spline Standard
 - The Rise of Digital Reading Jis Involute Spline Standard
 - Advantages of eBooks Over Traditional Books
2. Identifying Jis Involute Spline Standard
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Jis Involute Spline Standard
 - User-Friendly Interface
4. Exploring eBook Recommendations from Jis Involute Spline Standard
 - Personalized Recommendations
 - Jis Involute Spline Standard User Reviews and Ratings
 - Jis Involute Spline Standard and Bestseller Lists
5. Accessing Jis Involute Spline Standard Free and Paid eBooks
 - Jis Involute Spline Standard Public Domain eBooks
 - Jis Involute Spline Standard eBook Subscription Services
 - Jis Involute Spline Standard Budget-Friendly Options

6. Navigating Jis Involute Spline Standard eBook Formats
 - ePub, PDF, MOBI, and More
 - Jis Involute Spline Standard Compatibility with Devices
 - Jis Involute Spline Standard Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Jis Involute Spline Standard
 - Highlighting and Note-Taking Jis Involute Spline Standard
 - Interactive Elements Jis Involute Spline Standard
8. Staying Engaged with Jis Involute Spline Standard
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Jis Involute Spline Standard
9. Balancing eBooks and Physical Books Jis Involute Spline Standard
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Jis Involute Spline Standard
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Jis Involute Spline Standard
 - Setting Reading Goals Jis Involute Spline Standard
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Jis Involute Spline Standard
 - Fact-Checking eBook Content of Jis Involute Spline Standard
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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for the nitration 4 01 ml of nitric acid 4 00 ml of sulfuric acid and 4 56 ml bromobenzene were used to complete the reaction with these measurements bromobenzene was found to be the limiting reagent since only 4 56 ml of bromobenzene was used the amount of product predicted to be recovered was 8 7533 g

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the aim of the experiment is to determine and study electrophilic aromatic substitution reaction eas particularly nitration of methyl benzoate go give methyl m nitrobenzoate thus determine the weight melting point and percentage yield of the pure methyl m nitrobenzoate abstract

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in this experiment we will carry out the nitration of bromobenzene bromine substituted on an aromatic ring is an ortho para directing group it will direct an incoming electrophile to the ortho and para positions it is also deactivating meaning that its reactions will be slower than the identical reactions of benzene

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section 20711 lab experiment nitration of bromobenzene introduction the chemical reaction of nitration consists of a nitro group being added to or substituted in a molecule nitration can basically be carried out by a mixture of concentrated nitric acid and sulfuric acid this mixture is useful to obtain the active nitronium ion

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1 go to the restroom and wash the affected area with lots of soap and water the soap in the lab is not suitable for this purpose 2 return to the lab and apply mineral oil to the affected area 3 the summary to this warning is not to touch any part of your body while performing this experiment if you must leave the lab for any reason 1

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in the nitration of bromobenzene a mixture of sulfuric acid and nitric acid react with one another nitric acid the weaker of the two acids will serve as base to form nitronium ion bromobenzene will attack the nitronium ion by nucleophilic attack

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nitration of bromobenzene lab report improved essays 731 words 3 pages open document essay sample check writing quality show more this experiment was performed in order to demonstrate the principles of nitration through electrophilic aromatic substitution it also examined the effects of bromine on an aromatic ring ortho para vs meso directing

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then actual is your actual findings yield actual theoretical $\times 100$ what are the possible side reactions of nitration of bromobenzene dinitration can occur at ortho para or at both ortho positions occurs in overheating meta product happens very rarely because bromine is an ortho para director

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the soap in the lab is not suitable for this purpose 2 return to the lab and apply mineral oil to the affected area theory and explanation of the nitration of bromobenzene if the temperature of the reaction mixture exceeds 60 o

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the bromine substituent in bromobenzene is an ortho para director the para position is favored due to steric effects in the reaction that takes place in this lab a nitro group is substituted onto bromobenzene at the para position to form 1 bromo 4

nitrobenzene

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study with quizlet and memorize flashcards containing terms like reacting sulfuric and nitric acid together produces the nitronium ion alone nitric acid is not a strong enough electrophile to react with bromobenzene sulfuric acid is added to the nitric acid the reverse rxn can overheat and boil easily includes a claisen adaptor and

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over 5 minutes slowly pipet this bromobenzene into the icy cold nitration mixture hno 3 h 2 so 4 in the 125 ml flask and stir continue to stir the reaction mixture in the ice bath for 30 minutes do not heat in a new 250 ml erlenmeyer

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on the right the arenium cation has a nitro set with incredibly small 0.6 angstrom bond distances this will result in an optimization failure as the atoms are even close for the programme to accomodate their electrons demonstration of creating the p arenium cation by to nitration of bromobenzene

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lab report 15 nitration of bromobenzene brynn abbott amp katie muerer bea0006 uah ch 336 02 september 21 2022 abstract in this experiment the electrophilic aromatic substitution mechanism was used to obtain 4 nitrobromobenzene and 2

nitrobromobenzene recrystallization was used to purify 4 nitrobromobenzene

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the purpose of this lab was to observe where substituents are added on a benzene ring by way of electrophilic aromatic substitution the electrophilic source in the nitration of bromobenzene comes from a nitronium ion no₂ which acts as the electrophilic species

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nitration of bromobenzene is an electrophilic aromatic substitution reaction the electrophile will be formed from 4.0ml of nitric acid and 4.0ml of sulfuric acid and will then react with 4.5ml of bromobenzene this will produce o bromonitrobenzene and p bromonitrobenzene

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experimental spectra reaction a fluorobenzene stock fluorobenzene 1 h 1 h 19 f 19 f 13 c nmr fid for reference only sample 1 h 1 h 19 f 19 f 13 c nmr eas nitration of fluorobenzene crude product not available for submission for credit

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lab writeup the purpose of this lab was to observe where substituents are added on benzene ring way of electrophilic aromatic substitution the electrophilic

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chem 2261 lab 5 nitration of bromobenzene introduction an electrophilic aromatic substitution reaction is an important process that allows for intermediate chemical structures to be used as precursors to pharmaceuticals and other industrially produced chemicals by adding different functional groups into an aromatic ring

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